



Mine Clearance by Combined Methods presentation to

**The Ottawa Convention
Intersessional Meeting, 22 June 2004**



Informatics and Mathematical Modelling
Technical University of Denmark

Norwegian Defence Research Establishment



Royal Military Academy

Swedish EOD and Demining Centre



Mine Clearance – Fundamental Challenge

**Risk to local people after clearance must be comparable to
"natural causes"**

Current Situation

**Clearance efficiency must be high (>99.9%) if lethality due to
remaining mines shall not be the leading cause of accidents**

Available methods have clearance efficiency of 60 – 90%





Combined Methods within the Tool-Box

Any single method will reduce risk after demining at most by a factor 10

Clearance by e.g. three independent methods will reduce risk by a factor of up to 1000

Clearance cost and time are reduced by use of several independent methods

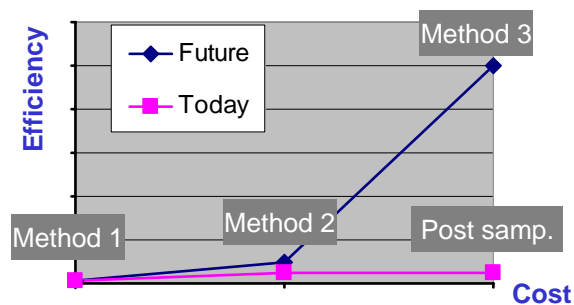
Increased robustness to environmental variability



Way ahead

Investigate the degree of correlation between the different methods already in use in the mine clearance process

Develop procedures for the use of complementary methods



No new development – but optimal use of existing equipment